

5/19/2018

Print



Dart Hawkesbury
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada
Tel (613) 632-5200

Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	To
PO039829	THY001-VC	2	1	Net 30	M17-4-B0.500X2.000	17-4 SS Bar .500 x 2.00 : MATERIAL: 17-4 PH SS BAR AS PER AMS 5604/5643 GRAIN MUST BE ALONG LENGHT OF BAR MIN. YIELD TENSILE STRENGTH = 100 KSI MIN. ULTIMATE TENSILE STRENGTH = 150 KSI receive ft				12	5/22/2018	13		S072711	Stock	5/19/2018	\$ 19.32 / ft	0		\$21
Total:										12		13								\$19.

Plex 5/19/2018 7:10 AM Dart.Dubois.Pascal



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO039829**

Supplier: THY001-VC
Thyssenkrupp Materials CA Ltd
O/A VPK Metal- c/o T27540
PO Box 4275, Postal "A"
Toronto
ON
M5W 5V8 Canada
Phone: 905 669 9444
Fax: 905 738 9033

PO No: PO039829

PO Date: 5/8/18

Due Date: 5/22/18

Purchase Order

Revision:

Revision Date:

Ship-To Contact: Lavoie, Chantal
clavoie@dartaero.com

Via: Ground

Pynt Terms: Net 30

Freight Terms:

Special Comments: quote no. 1203109433

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Items

Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	MT-BRONZE-C63000-R2.500	1 ft length	Bronze C63000 Round Bar 2.500" : MAT'L AS PER BRONZE C63000 AS PER ANS 4640 OR ASME SB150 OR ASTM B150 OR SAE J461 OR SAE J463	Firmed	5/22/18	2 ft	0 ft	2 ft	\$172.50/ft	\$345.00
2	M17-4-B0.500X2.000		17-4 SS Bar .500 x 2.00 : MATERIAL: 17-4 PH SS BAR AS PER AMS 5604/5643 GRAIN MUST BE ALONG LENGHT OF BAR MIN. YIELD TENSILE STRENGTH = 100 KSI MIN. ULTIMATE TENSILE STRENGTH = 150 KSI receive ft	Firmed	5/22/18	12 ft	0 ft	12 ft	\$19.32/ft	\$231.84
3	M304R0.625		304 SS Round bar 0.625 : MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE receive ft	Firmed	5/11/18	12 ft	0 ft	12 ft	\$7.08333/ft	\$85.00

Items										
Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
4	M6061T6R7.000		6061-T6 Round Bar 7.000" (CUT TO SIZE: 7.125") : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ- AA-200/8 OR AMS-QQ-A- 200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Firmed	5/22/18	2.969 ft	0 ft	3 ft	\$148.21052/ft	\$440.04
<p>Line Item Note note; cut to 7.125" x 5 pcs = 2.96875 ft</p> <p>Grand Total: \$1,101.88</p>										

Order Notes

Procurement Quality Clauses

A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)
A026 certification of material conformance
A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 5/8/18 11:44 AM dart.lavoie.chantal



thyssenkrupp Materials NA, 4700 chemin du Bois-Franc, Saint-Laurent, QC H4S 1A7

DELIVERY NOTE



DATE: 05/22/2018
 DOC. NO: 2405966092*
 BOL. NO: 2405966092
 ORDER NO: 1403639010
 YOUR P/O: PO039829
 CUSTOMER NO: 10058125
 Route: 303UA
 CONTACT: Lucy Truglio
 TEL:
 FAX:
 EMAIL: lucy.truglio@thyssenkrupp.com

DART AEROSPACE LTD
 1270 ABERDEEN ST
 HAWKESBURY ON K6A 1K7

MTR

IBAR

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT
 WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR
 TO SHIPPING.

ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **

** REFERENCED ON IT **

Deliveries are carried out for your account and risk acc. to our Gen. Terms & Cond. of Delivery and Payment.

ITEM	DESCRIPTION	NET QTY1 / QTY2	PACKAG
0010	AMS 5604/5643	1	1008608281

GRAIN MUST BE ALONG LENGTH OF BAR MIN. YIELD

TENSILE STRENGTH = 100 KSI MIN. ULTIMATE
 TENSILE STRENGTH 150 KSI

SSREC00132

T-17-4 Stainless Steel HRAP Cond A Rectangular

0.50000 " (+-.012) X 2.0000 " (+-.031) X 144 Mill Length

Actual Chemistry/Act. Physical

Standard Packaging

MATERIAL ORIGIN: ITALY OR PORTUGAL

AMS 5604/5643

GRAIN MUST BE ALONG LENGTH OF BAR MIN. YIELD

TENSILE STRENGTH = 100 KSI MIN. ULTIMATE
 TENSILE STRENGTH 150 KSI

TAGNUM	QTY	UOM	VEND	VENDPO	HLOT	PCS	---	COM
2001356563	1	PC	VALBRUNA	5400399288	273943	1		

SAE AMS 5643|U;ROHS COMPLIANT;ASTM A 484/A 484M|2016;ASTM A 564/A
 564M|2013;ASTM F 899 REV B|2012

Total Gross Weight

44.000 lb

All items, not declared as partial delivery, are final quantities.

Delivery Terms: PPD gem. Incoterms 2000 Prepaid PREPAID

DELIVERY NOTE

DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON K6A 1K7

DATE:	05/22/2018
DOC. NO:	2405966092*
BOL. NO:	2405966092
ORDER NO:	1403639010
YOUR P/O:	PO039829
CUSTOMER NO:	10058125
Route:	303UA
CONTACT:	Lucy Truglio
TEL:	
FAX:	
EMAIL:	lucy.truglio@thyssenkrupp.com

CERTIFICAT DE CONFORMITÉ/CERTIFICATE OF COMPLIANCE

*thyssenkrupp Matériaux NA certifie que le matériel décrit ci-dessus est conforme aux dessins ou spécifications exigés sur le bon de commande et qui sont en vigueur à la date où la commande a été acceptée./ thyssenkrupp Materials NA certifies that the material described above is in accordance with the drawings or specifications called for on said order that are current on the date order was accepted.

*Nous certifions que le document reproduit ici est une copie conforme du rapport fourni par le fournisseur du matériel où les données résultent de l'analyse faite par un laboratoire qualifié/ We certify that the document reproduced here is true to the report provided by the equipment supplier where the data are the result of analysis by a qualified laboratory.

David Noordine - Director of Quality Assurance





Acciaierie Valbruna S.p.A.

36100 VICENZA (Italia) - Viale della scienza, 25 z.i.
Telefono 0444.988211 - Fax 0444.963836
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4/37
Telefono 0471.924111 - Fax 0471.924497

CERTIFICATO DI COLLAUDO - ABNAHMEPRUEFZEUGNIS - INSPECTION CERTIFICATE - CERTIFICAT DE RECEPTION

In conformità a: EN 10204 (2004), 3.1 / ISO 10474 (2013), 3.1

Certificato nr. MEST191150 / 2018 /
Prüfung/Tau/Essei

Cliente / Besteller/Purchaser/Client
VALBRUNA STAINLESS INC.
2400 TAYLOR STREET WEST
46801 - FORT WAYNE, IN 46801 - US

Stato di fornitura: Hot rolled Descaled COND. A Hot
Lieferzustand: rolled
Delivery state:
Etat de livraison:

Produttore:
Hersteller/Item/Usine productrice

Ordine nr: 52828 STOCK POMPTON
Bestell:
Your order:
Commande:

Tipo di Elaborazione: E+AOD
Erschmelzungsart:
Melting process:
Mode d'elaboration:

Marchi di Fabbrica:
Zeichen des Lieferwerkes:
Trade marks:
Sigles de fusine productrice:

Conferma ordine nr: EI17001637

Werk/Dur./Quart./Ref.:

Qualità:
Werkstoff/Grade/Nuance

630

Marca:
Markenbezeichnung:
Brand / Nuance:

V174

Punzone del Collaudatore:
Stempel des Werksachverständigen:
Inspector's stamp/Plaque de l'essayeur:

MR

Punzonatura: 630
Kennzeichnung:
Marking:
Marquage:

SPECIFICHE:

Anforderungen / Requirements / Exigences

Note:

Aufzeichnungen / Notes / Notas

VSI FLAT 2. 630 A
AISI 630
AMS 2303 F
AMS 5643 Y S17400 A
AMS-H-8875 B NOVEMBER 2010
ASME SA564 2015 S17400 A (0)
ASTM A370 2017
ASTM A564 2013 S17400 A
ASTM F899 2012 630

(0)SECTION II P.T.A 2015 EDITION

Tolleranza: ASTM A484-16 TABLE 5

Tolerances/Allowances/Tolerancias

Pos. nr. Pos. nr. Nr. de poste	Oggetto Gegenstand Product description Objet de l'opération	Dimensioni - in Abmessungen Dimension Dimensions	Lunghezza - in Länge Length Longueur	Colata Schmelze Melt Fusion	Pezzi Stückzahl Pieces Places	Peso - LB Gewicht Weight Poids	Lotto nr. Losn. Lot n. Lot N.
0120	Flat	2,0000 x 0,5000	156/ 156	273943		2.628	710009370

TEST ALLO STATO DI FORNITURA

Test on delivery condition / Prüfung auf lieferbarem Produkt / Test à l'état de fourniture / Prueba sobre el material así como entregado

TEST	Prova/Prüfung Specimen/Eproben Larg. diam. Spec. Größe Diam. Dicke Wich. Diam. Thickness Larg. diam. épaisseur	Temperatura Temperatur Temperature Temperatura	Snervamento Bruchgrenze Yield Stress Limite élastique	Snervamento Bruchgrenze Yield Stress Limite élastique	Resistenza Zugfestigkeit Tensile strength Résistance à traction	Allungamento Bruchdehnung Elongation Allongement	Strizione Einengung Reduction of area Striction	Resilienza Kerbschlagenergie Impact Value Resilience	Durezza Härte Hardness Dureté HB
Valori richiesti Anforderungen/Requisits Valeurs requises	min max		-	-	-	-	-	-	363
A									346

TEST ALLO STATO DI FORNITURA

Test on delivery condition / Prüfung auf lieferbarem Produkt / Test à l'état de fourniture / Prueba sobre el material así como entregado

TEST	min	max	
A Delta Ferrite		5,0	0,8 %
A Grain size for ASTM E112			5
A RATINGS FREQUENCY		1,10	0
A RATINGS SEVERITY		1,05	0

Vicenza, 26/01/18

VCQ008 - MEST191150

(Mod. MCE2)

Il collaudatore di stabilimento / der Werkssachverständige / Works Inspector / L'agent d'usine

M. RIZZOTTO

Pagina - 1 di 3

From: TK Materials CA, Ltd.

Cust. DART AEROSPACE LTD

Del.: 2405966092

CstAr

CstOr PO039829

Wgt.: 44 LB

Date 05/15/2018



Acciaierie Valbruna S.p.A.

38100 VICENZA (Italia) - Viale della scienza, 25 z.i.
Telefono 0444.968211 - Fax 0444.963836
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4/37
Telefono 0471.924111 - Fax 0471.924497

CERTIFICATO DI COLLAUDO - ABNAHMEPRUEFZEUGNIS - INSPECTION CERTIFICATE - CERTIFICAT DE RECEPTION

In conformità a: EN 10204 (2004), 3.1 / ISO 10474 (2013), 3.1

Certificato nr. MEST191150 / 2018 /
Prüfung/Test/Essai

Cliente / Besteller/Purchaser/Client
VALBRUNA STAINLESS INC.
2400 TAYLOR STREET WEST
46801 - FORT WAYNE, IN 46801 - US

Stato di fornitura: Hot rolled Descaled COND. A Hot
Lieferzustand: rolled
Delivery state:
Etat de livraison:

Produttore:
Hersteller/Item/Usine productrice

Ordine nr: 52828 STOCK POMPTON

Tipo di Elaborazione: E+AOD

Marchi di Fabbrica:
Zeichen des Lieferwerkes
Trace marks
Siglas de fusino productrice



Desat
Your order
Commande

Qualità: 630
Werkstoff/Grade/Nuance

Punzone del Collaudatore:
Stempel des Werksachverständigen
Inspector's stamp/Pointon de l'essayeur

MR

Conferma ordine nr: EI17001637

Marca: V174

Punzonatura: 630

Vinkel/Our Order/Réf. nr.

Avviso di Spedizione: D-VI18002848
Lieferanweisung/Packing inst B.L.

Kennzeichnung
Marking
Marquage

Sample cond. H900

Tipo Trattamento	Temperatura	Raffreddamento	Permanenza	Tipo Trattamento	Temperatura	Raffreddamento	Permanenza	Tipo Trattamento	Temperatura	Raffreddamento	Permanenza
Wärmebehandlung	Temperatur	Abkühlung	Haltezeit	Wärmebehandlung	Temperatur	Abkühlung	Haltezeit	Wärmebehandlung	Temperatur	Abkühlung	Haltezeit
Heat Treatment	Temperature	Cooler	Retention	Heat Treatment	Temperature	Cooler	Retention	Heat Treatment	Temperature	Cooler	Retention
Traitement Thermique	Température	Rafroidissement	Maintien	Traitement Thermique	Température	Rafroidissement	Maintien	Traitement Thermique	Température	Rafroidissement	Maintien
Aging	900°F	AIR	60'								
1) Longitudinale/Inge. Transversale/Quer. Qu-Tangenziale/Längentel.											
TEST	Proveita/ Probe Zugversuch/Probe Tensile Spec. Werk. Diam. Thickness Lap. diam. spool	Poste Seggio Sección Lap. diam. spool	Snervamento Strichgrenze Yield Stress Limite élastique Rp 0,2%	Snervamento Strichgrenze Yield Stress Limite élastique	Resistenza Zugfestigkeit Tensile strength Résistance à traction Rm	Allungamento Bruchdehnung Elongation Allongement	E 4d	Strizione Bruchdehnung Reduction of area Striction	RA	Resilienza Kerbschlagarbeit Impact Value Resilience	Durezza Härte Hardness Dureté HB
Valori richiesti	min	max	170	-	190	-	10	-	40	-	388
Arrangamenti/Rapporti valori											444
B	12,5	68	L	179	201	15		58		434	

Mechanical properties according to ASTM A370.

Delta Ferrite according to AMS 2315.

Analisi chimica

Chemische Zusammensetzung/Chemical Analysis/Analyse chimique

Coletta / Mest	min	max	15,00	17,00	0,50	3,00	5,00	3,00	5,00	0,040	0,030	0,050			
Substrate/Colette	C %	Si %	Mn %	Cr %	Mo %	Cu %	Ni %	Co %	P %	S %	N %	Ta %			
273943	0,037	0,46	0,43	15,27	0,18	3,25	4,56	0,056	0,025	0,001	0,037	0,0008			
Coletta / Mest	min	max	0,150	0,350											
Substrate/Colette	Nb %	Ta %													
273943	0,305			0,304											

Material solution annealed 1904° F for 1 h,
air cooled to below 90° F.

Micro and macro etch test : satisfactory.

Produced without class I-II Ozone depleting substances.

Macroetch test per ASTM E340: acceptable.

Furnace calibrated according to AMS-H-6875.

Pyrometry in accordance with AMS2750.

Reduction ratio = 50,2 : 1

Material is OFARS Compliant

Sono state soddisfatte tutte le condizioni richieste

Controllo antimescolanza: OK

Controllo visivo e dimensionale: soddisfa le esigenze

Die gestellten Anforderungen sind in Anlage erfüllt
The material has been furnished in accordance with the requirements
Le matériel a été trouvé conforme aux exigences

Verwechslungsprüfung: spektralanalytisch durchgeführt
Antimixing testing performed: OK
Contrôle antimeslange fait: r.s.

Beichtigung und Ausmessung: ohne Beanstandung
Visual inspection and dimensional check: satisfactory
Contrôle visuel et dimensionnel: satisfaisant

Vicenza, 26/01/18

VCC006 - MEST191150

(Mod. MCE2) - 18/01/2018 - 18/01/2018 - 18/01/2018

Il collaudatore di stabilimento / der Werksachverständige / Works Inspector / L'agent d'usine

M. RIZZOTTO

Pagina - 2 di 3

From: TK Materials CA, Ltd.

Cust. DART AEROSPACE LTD

CstAr

Wgt.: 44 LB

Del.: 2405966092

CstOr PO039829

Date 05/15/2018



Acciaierie Valbruna S.p.A.

36100 VICENZA (Italia) - Viale della scienza, 25 z.i.
 Telefono 0444.966211 - Fax 0444.963836
 Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4/37
 Telefono 0471.924111 - Fax 0471.924497

CERTIFICATO DI COLLAUDO - ABNAHMEPRUEFZEUGNIS - INSPECTION CERTIFICATE - CERTIFICAT DE RECEPTION

In conformità a: **EN 10204 (2004), 3.1 / ISO 10474 (2013), 3.1**

Certificato nr. **MEST191150 / 2018 /**
 Prüfung/Test/Essai

Cliente / Besteller/Purchaser/Client
VALBRUNA STAINLESS INC.
 2400 TAYLOR STREET WEST
 46801 - FORT WAYNE, IN 46801 - US

Stato di fornitura: **Hot rolled Descaled COND. A Hot**
 Lieferzustand: **rolled**
 Delivery state
 Etat de livraison

Produttore:
 Hersteller/fabrik/Usine productrice

Ordine nr: **52828 STOCK POMPTON**
 Bestell: Your order
 Commande

Tipo di Elaborazione: **E+AOD**
 Erhitzungsart
 Melting process
 Mode d'elaboration

Marchi di Fabbrica:
 Zeichen des Lieferwerkes
 Trade marks
 Signes de l'usine productrice



Conferma ordine nr: **E17001637**
 Works-Our Order/Ref. nr.

Qualità: **630**
 Werkstoff/Grade/Nuance

Punzone del Collaudatore:
 Stempel des Werksachverständigen
 Inspector's stamp/Pointon de l'essayeur

MR

Avviso di Spedizione: **D-VI18002848**
 Lieferanzeige/Packing list/B.L.

Marca: **V174**
 Markenbezeichnung
 Brand / Nuance

Punzonatura: **630**
 Kennzeichnung
 Marking
 Marquage

Molten and manufactured in Italy No welding or weld repair Material free from Mercury contamination

We declare that the finished product is checked for radioactive contamination through Portal System when it leaves the production plant.

QUALITY MANAGEMENT SYSTEM CERTIFIED BY LLOYD'S REGISTER ACCORDING TO ISO 9001 : 2008, IATF 16949 : 2016, AS 9100C

The Quality Management System is Certified acc. Pressure Equipment Directive ("97/23/EC") Annex 1, s. 4.3 and 2014/68/EU by TÜV and LLOYD'S
 Any act of tampering, modification, alteration, counterfeiting and/or falsification and/or any other action which modifies the contents of this test certificate shall constitute a violation of applicable civil and criminal laws. Acciaierie Valbruna shall protect its rights and interests before any competent court, authority and jurisdiction.
 Maximal and/or Valplus grades/products are manufactured with ladle techniques to control composition, distribution, size and shape of non-metallic inclusions for improved machinability.

The supplied product conforms to requirements expressly requested by the purchaser and conforms to requirements specified by certified norms and standards. Should the product be used for more severe, critical and/or in any case different applications than those the material is generally intended for, any different and/or supplementary requirements shall be specifically demanded, at least, upon order of the Product by the Purchaser. Acciaierie Valbruna SpA shall not be responsible for any improper use of the Products.

Vicenza, 26/01/18

VQ0008 - MEST191150

(Mod. MCE2) REGOLAMENTO EUROPEO SULLA RESPONSABILITÀ DI PRODUTTORE

Il collaudatore di stabilimento / der Werksachverständige / Works inspector / L'agent d'usine

M. RIZZOTTI

Pagina - 3 di 3

From: TK Materials CA, Ltd.

Cust. DART AEROSPACE LTD

CstAr

Wgt.: 44 LB

Del.: 2405966092

CstOr PO039829

Date 05/15/2018

Thomas Sanchez

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M17-4-B0.500X2.000

PO / BATCH NO.: Q39829/5022711

DATE: MAY 19 2018

MATERIAL CERT REC'D: yes
 QUANTITY RECEIVED: 13'
 QUANTITY INSPECTED: 13'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.500
 THICKNESS RECEIVED: 0.500
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	AMS 5643
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	Heat # 273943
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS</u>		SIGNED OFF BY: _____	
DATE: <u>9-89 MAY 19 2018</u>		DATE: _____	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 17-4 PH / TYPE 630 / S17400 SS BAR
GRAIN MUST BE ALONG LENGTH OF BAR
MINIMUM YIELD STRENGTH PER TABLE
MINIMUM ULTIMATE STRENGTH PER TABLE

SPECIFICATION: AMS 5604 OR AMS 5643 OR ASTM A693 OR ASTM 564

PART NUMBER: M17-4- HHHH-B T.TTT X WWW| COND | THICK | WIDTH | WHERE: HHHH SPECIFIES THE MATERIAL CONDITION (PER TABLE BELOW)
T.TTT SPECIFIES THE THICKNESS
WWW SPECIFIES THE WIDTH

MATERIAL CONDITION TABLE:

CODE	CONDITION	MIN YIELD TENSILE STRENGTH (KSI)	MIN ULTIMATE TENSILE STRENGTH (KSI)
(OMITTED)	NONE SPECIFIED (CONDITION A NOT ACCEPTABLE)	100	150
H900	H900	170	190
H925	H925	155	170
H1025	H1025	145	155
H1075	H1075	125	145
H1100	H1100	115	140
H1150	H1150	105	135
CONDA	CONDITION A (SOLUTION TREATED)		

NOTES: MATERIAL IN H900 AND H925 CONDITION NOT RECOMMENDED FOR TENSION OR SHEAR APPLICATIONS IN COLD WEATHER CONDITIONS
MATERIAL IN H900 AND H925 CONDITION NOT RECOMMENDED FOR APPLICATIONS WHERE STRESS CORROSION CRACKING IS POSSIBLE
CONDITION A NOT TO BE USED IN DESIGN FOR FINAL PRODUCT AND SHOULD ALWAYS BE HEAT TREATED

EXAMPLES:

PART NUMBER
0.250" X 4.000" BAR MIN UTS = 150 KSI, MIN YTS = 100 KSI
1.000" X 2.500" BAR H900 CONDITION
0.500" X 3.250" BAR H1025 CONDITION
0.750" X 2.500" BAR A CONDITION

RELEASED
2017-10-31
Eav17-728

B	ADD MATERIAL CONDITION AND REFORMAT DRAWING (CIR17-107)	NO	17.09.14
A	NEW ISSUE	DS	02.04.18
REV.	DESCRIPTION	BY	DATE
DESIGN	NO		
DRAWN	NO		
CHECKED	CP		
MFG. APPR.	DD		
APPROVED	WM		
DE APPR.	CP		
DATE	17.09.14		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M17-4-B			
REV. B			
SHEET 1 OF 1			
TITLE 17-4 SS BAR			
SCALE			
NTS			
COPYRIGHT © 2002 BY DART AEROSPACE LTD THIS DOCUMENT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS WITHOUT PERMISSION IN WRITING FROM DART AEROSPACE LTD			